

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|--|---|------------------|---------|------------------|
| S72 | 10 | S71 and gradient | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/30 15:32 |
| S71 | 64 | S70 adj3 pixel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/30 15:32 |
| S70 | 14200 | center adj3 mass | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/30 15:31 |
| S1 | 22 | "5659172" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/30 15:30 |
| S69 | 7 | 382/199.ccls. and ((average near7 (pixel and (neighborhood or pattern or mask))) and gradient) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:28 |
| S68 | 7 | 382/199.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:28 |
| S67 | 1198 | 382/199.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:28 |
| S66 | 2 | 348/625.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:28 |
| S65 | 4 | 348/625.ccls. and ((average near7 (pixel and (neighborhood or pattern or mask))) and gradient) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:28 |
| S64 | 482 | 348/625.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 13:26 |

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| S63 | 14 | (345/611.ccls. or 345/428.ccls. or 382/254.ccls. or 382/266-269.ccls. or 382/272.ccls.) and ((average near7 (pixel and (neighborhood or pattern or mask))) and gradient) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:23 |
| S53 | 1 | 345/611.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 12:21 |
| S62 | 3 | S61 and ((difference or subtract\$3) and gradient) | US-PGPUB; USPAT; DERWENT | OR | OFF | 2004/11/19 11:35 |
| S61 | 14 | (US-20020085237-\$ or US-20020097439-\$).did. or (US-4323974-\$ or US-4853970-\$ or US-5396584-\$ or US-5956432-\$ or US-6052489-\$ or US-6094508-\$ or US-6377711-\$ or US-6424751-\$ or US-6535632-\$ or US-6587592-\$ or US-6600517-\$ or US-6654017-\$).did. | US-PGPUB; USPAT | OR | OFF | 2004/11/19 11:34 |
| S60 | 226 | 382/272.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:47 |
| S59 | 0 | 382/272.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:47 |
| S58 | 8 | 382/267-269.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:47 |
| S57 | 18 | 382/266.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:47 |
| S31 | 219 | 382/272.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:47 |
| S55 | 6 | 382/254.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:46 |

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| S56 | 619 | 382/266.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:30 |
| S32 | 583 | 382/266.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:30 |
| S54 | 732 | 382/254.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:27 |
| S7 | 567 | 382/254.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/19 09:18 |
| S52 | 1 | 345/428.ccls. and ((enhanc\$3 near3 image) and ((matrix or array) near5 pixel) and gradient and (center near5 (pixel or pattern or neighborhood))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 08:01 |
| S51 | 0 | 345/428.ccls. and ((matrix near7 pixel) and (gradient adj3 image)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/19 07:59 |
| S50 | 0 | 345/428.ccls. and ((matrix near7 pixel) and gradient and neighborhood) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 15:13 |
| S49 | 11 | 345/611.ccls. and (distance same (neighborhood or vicinity)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 15:13 |
| S42 | 1 | 345/611.ccls. and ((matrix near7 pixel) and gradient and neighborhood) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 15:13 |
| S48 | 1 | 345/611.ccls. and (canny) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 14:16 |

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| S47 | 1 | 345/611.ccls. and (canny adj filter) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 14:15 |
| S46 | 7 | 345/611.ccls. and (center near5 (pixel and intensity)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 14:15 |
| S45 | 4 | 345/611.ccls. and (center near5 mass) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 13:24 |
| S44 | 2 | 345/611.ccls. and ((gradient adj3 image) and neighborhood) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 13:23 |
| S43 | 1 | 345/611.ccls. and ((matrix near7 pixel) and (gradient adj3 image)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2004/11/18 13:22 |
| S41 | 325 | 345/611.ccls. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2004/11/18 13:20 |
| S33 | 282 | 345/611.ccls. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2004/11/18 13:19 |
| S40 | 3 | Gold-Yaron.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/18 13:15 |
| S27 | 3 | Gold-Yaron.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/11/18 13:15 |
| S36 | 3 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3)) and (pixel adj intensity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:32 |
| S35 | 41 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:29 |

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| S34 | 41 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:29 |
| S25 | 40 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:28 |
| S24 | 3 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3)) and (pixel adj intensity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:28 |
| S13 | 37 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/26 08:28 |
| S26 | 264 | 345/611.ccls. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2004/05/25 11:06 |
| S21 | 547 | 382/266.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/25 10:50 |
| S20 | 211 | 382/272.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/25 10:50 |
| S30 | 652 | 382/254.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/25 10:38 |
| S29 | 41 | 345/614.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/25 10:08 |
| S28 | 58 | 345/613.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/05/24 16:05 |
| S18 | 236 | 345/611.ccls. | US-PGPUB; USPAT; DERWENT | OR | OFF | 2004/01/12 08:22 |
| S23 | 0 | "center of mass" near5 pixel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:21 |

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| S22 | 0 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3)) and (pixel adj brightness)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:21 |
| S12 | 0 | "center of mass" near5 pixel | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:21 |
| S11 | 3 | 345/428.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3)) and (pixel adj intensity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:21 |
| S9 | 511 | 382/266.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:13 |
| S8 | 207 | 382/272.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:11 |
| S19 | 602 | 382/254.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2004/01/12 08:05 |
| S17 | 64 | 345/589.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3))) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/08/01 15:02 |
| S16 | 7 | 345/589.ccls. and (((edge or image) adj (enhanc\$5 or detect\$3 or estimat\$3)) and (pixel adj intensity)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/08/01 15:01 |
| S15 | 733 | 345/589.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/08/01 15:00 |
| S14 | 84 | 382/266.ccls. and (pixel near3 density) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/08/01 15:00 |
| S10 | 387 | 345/428.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/08/01 14:47 |
| S6 | 12 | canny adj filter | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/07/31 13:23 |

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| S5 | 96 | ((edge or image) adj enhanc\$5) and (gradient adj image) and filter | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/07/31 13:23 |
| S2 | 2 | ((edge or image) adj enhanc\$5) and (gradient adj image) and canny | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/07/31 13:22 |
| S4 | 6 | "6272250" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/07/31 13:15 |
| S3 | 6 | "6301387" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2003/07/31 13:15 |